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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	6
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Complete if Known

Application Number	10/660,131
Filing Date	September 11, 2003
First Named Inventor	David H. Munn et al.
Art Unit	1647
Examiner Name	Regina M. DeBerry
Attorney Docket Number	M0351-287806

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	4.	WO 1999/29310	06-17-1999	Medical College of Georgia Res (Abstract)		
	5.	WO 2000/66764	11-09-2000	Ludwig Institute for Cancer Research		

Examiner Signature		Date Considered	
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Sheet 2 of 6

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	6	BABAN et al., "A Minor Population of Splenic Dendritic Cells Expressing CD19 Mediates IDO-Dependent T Cell Suppression Via Type 1 IFN Signaling Following B7 Ligation," <i>International Immunology</i> , 2005 <u>17</u> (7): 909-919	
	7	BJORCK et al., "Isolation and characterization of plasmacytoid dendritic cells from Flt3 ligand and granulocyte-macrophage colony-stimulating factor-treated mice" <i>Blood</i> , 2001, <u>98</u> (13): 3520-3526.	
	8	BORRAS et al., "Identification of Both Myeloid CD11c and Lymphoid CD11c Dendritic Cell Subsets in Cord Blood," <i>British Journal of Haematology</i> , 2001, <u>113</u> : 925-931.	
	9	CADY et al., "1-Methyl-DL-tryptophan, beta-(3benzofuranyl)-DL-alanine (the oxygen analog of tryptophan), and beta-3-benzo(b)thienyl-DL-alanine (the sulfur analog of tryptophan) are competitive inhibitors for indoleamine 2,3-dioxygenase," <i>Archives of Biochemistry and Biophysics</i> , 1991, <u>291</u> (2): 326-333 (Abstract)	
	10	CHAPMAN et al., "Pharmacologically active benzo(b)thiophene derivatives. VIII Benzo(b)thiophene analogs of tryptophan and alpha-methyltryptophan, and some of their 5-substituted derivatives," <i>Journal of the Chemical Society, Section C: Organic Chemistry</i> , 1969, No. 14: 1855-1858 (Abstract).	
	11	DAGHER et al., "Pilot Trial of Tumor-Specific Peptide Vaccination and Continuous Infusion Interleukin-2 in Patients with Recurrent Ewing Sarcoma and Alveolar Rhabdomyosarcoma: An Inter-Institute NIH Study," <i>Med. Pediatr. Oncol.</i> , 2002, <u>38</u> : 158-164.	
	12	European Patent Office, Supplementary Partial European Search Report, Application No. EP 02 80 7233, Date of Completion of the Search October 19, 2005, 5 pages.	
	13	FRIBERG et al., "Indoleamine 2,3-Dioxygenase Contributes to Tumor Cell Evasion of T Cell-Mediated Rejection," <i>Int. J. Cancer</i> , 2002, <u>101</u> : 151-155.	
	14	FRIBERG et al., "Indoleamine 2,3-dioxygenase (IDO) protects established tumors from T cell mediated rejection," <i>Proc. Amer. Ass. Cancer Res. Ann. Meet.</i> , 2000, No. 714, page 112 (Abstract).	
	15	FRUMENTO et al., "Inhibition of T cell proliferation by the purified enzyme indoleamine 2,3-dioxygenase," <i>Human Immunology, The European Federation for Immunogenetics 14th Annual Conference, April 4-7, 2000</i> , <u>61</u> : page S140 (Abstract)	
	16	GROHMANN et al., "IFN-γ Inhibits Presentation of a Tumor-Self Peptide by CD8α- Dendritic Cells Via Potentiation of the CD8α+ subset" <i>Journal of Immunology</i> , 2000, <u>165</u> (3): 1357-1363.	
	17	HWU et al., "Indoleamine 2,3-Dioxygenase Production by Human Dendritic Cells Results in the Inhibition of T Cell Proliferation" <i>J. Immunol.</i> , 2000, <u>164</u> : 3596-3599.	
	18	International Search Report for PCT/US02/11319, filed April 12, 2002 mailed September 6, 2002.	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 3 of 6

Complete if Known

Application Number	10/660,131
Filing Date	September 11, 2003
First Named Inventor	David H. Munn et al.
Art Unit	1647
Examiner Name	Regina M. DeBerry
Attorney Docket Number	M0351-287806

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	19	LEE et al., "Pattern of Recruitment of Immunoregulatory Antigen-Presenting Cells in Malignant Melanoma," <i>Laboratory Investigation</i> , 2003, <u>83</u> (10): 1457-1466.	
	20	MELLOR et al., "Extinguishing Maternal Immune Responses during Pregnancy: Implications for Immunosuppression," <i>Seminars in Immunology</i> , 2001, <u>13</u> (4): 213-218.	
	21	MELLOR et al., "Tryptophan catabolism and T cell tolerance: immunosuppression by starvation?" <i>Immunology Today</i> , 1999, <u>20</u> : 469-473.	
	22	MELLOR et al., "Tryptophan catabolism prevents maternal T cells from activating lethal anti-fetal immune responses," <i>J. Reprod. Immunol.</i> , 2001, <u>52</u> (1-2): 5-13.	
	23	MELLOR et al., "HLA-G transgenic mice," <i>J. Reprod. Immunol.</i> , 1999, <u>43</u> : 253-261.	
	24	MELLOR et al., "Immunology at the maternal-fetal interface," <i>Ann. Rev. Immunol.</i> , 2000, <u>18</u> : 367-391.	
	25	MELLOR et al., "IDO expression by dendritic cells: tolerance and tryptophan catabolism" <i>Nat. Immunol. Rev.</i> , 2004, <u>4</u> : 762-774.	
	26	MUNN et al., "Ligation of B7-1/B7-2 by Human CD4+ T Cells Triggers Indoleamine 2,3-Dioxygenase Activity in Dendritic Cells," <i>Journal of Immunology</i> , 2004, <u>172</u> : 4100-4110.	
	27	MUNN et al., "Dendritic Cells Have the Option to Express IDO-Mediated Suppression or Not," <i>Blood</i> , 2005, <u>105</u> (6): 2618.	
	28	MUNN et al., "Macrophage inhibition of T cell activation via depletion of tryptophan," <i>Blood</i> , 1998, <u>48-IV</u> , (Abstract).	
	29	MUNN et al., "Potential Regulatory Function of Human Dendritic Cells Expressing Indoleamine 2,3-Dioxygenase," <i>Science</i> , 2002, <u>297</u> : 1867-1870.	
	30	MUNN et al., "Regulation of T cell activation by macrophage (Mvariant phi)-mediated tryptophan (TRP) depletion," <i>FASEB Journal</i> , 1998, <u>12</u> : page A276 (Abstract)	
	31	MUNN et al., "Tolerogenic Antigen-Presenting Cells," <i>Ann. NY. Acad. Sci.</i> , 2002 <u>961</u> : 343-345.	
	32	OSUGI et al., "Myeloid Blood CD11c+ Dendritic Cells and Monocyte-Derived Dendritic Cells Differ in their Ability to Stimulate T Lymphocytes," <i>Blood</i> , 2002, <u>100</u> (8): 2858-2866.	
	33	PACANOWSKI et al., "Reduced blood CD123* (lymphoid) and CD11c* (myeloid) dendritic cell numbers in primary HIV-1 infection" <i>Blood</i> , 2001, <u>98</u> (10): 3016-3021.	

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		<i>Application Number</i>	10/660,131
		<i>Filing Date</i>	September 11, 2003
		<i>First Named Inventor</i>	David H. Munn et al.
		<i>Art Unit</i>	1647
		<i>Examiner Name</i>	Regina M. DeBerry
(Use as many sheets as necessary)		<i>Attorney Docket Number</i>	M0351-287806
Sheet	4	of	6

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	34	PETERSON et al., "Evaluation of functionalized tryptophan derivatives and related compounds as competitive inhibitors of indoleamine 2,3-dioxygenase," <i>Medicinal Chemistry Research</i> , 1994, 3(8): 531-544 (Abstract).	
	35	POTULA et al., "Inhibition of Indoleamine 2,3-Dioxygenase (IDO) Enhances Elimination of Virus-Infected Macrophages in an Animal Model of HIV-1 Encephalitis," <i>Blood</i> , 2005, 106(7): 2382-2390	
	36	REDDY et al., "A monocyte conditioned medium is more effective than defined cytokines in mediating the terminal maturation of human dendritic cells" <i>Blood</i> , 1997, 90(9): 3640-3646.	
	37	ROMANI et al., "Generation of mature dendritic cells from human blood" <i>Immunol. Meth.</i> , 1996, 196: 137-151.	
	38	SOUTHAN et al., "Structural requirements of the competitive binding site of recombinant human indoleamine 2,3-dioxygenase," <i>Medicinal Chemistry Research</i> , 1996, 3(5): 343-352 (Abstract).	
	39	TAN et al., "Creation of Tolerogenic Human Dendritic Cells via Intracellular CTLA4: A Novel Strategy with Potential in Clinical Immunosuppression," <i>Blood</i> , 2005, 106(9): 2936-2943.	
	40	TAN et al., "Modulation of human dendritic cell function following transduction with viral vectors; implications for gene therapy," <i>American Society of Hematology, Blood First Edition Paper</i> , prepublished online January 25, 2005.	
	41	TERNESS et al., "Regulation of Human Auto- and Alloreactive T Cells by Indoleamine 2,3-Dioxygenase (IDO)-Producing Dendritic Cells. Too Much Ado about IDO?" <i>Blood</i> , 2005, 105(6): 2480-2486.	
	42	TERNESS et al., "The Immunoregulatory Role of IDO-Producing Dendritic Cells Revisited," <i>Trends in Immunology</i> , 2006, 27: 68-73.	
	43	YOSHIDA et al., "Tryptophan Degradation in Transplanted Tumor Cells Undergoing Rejection," <i>Journal of Immunology</i> , 1988, 141(8): 2819-2823.	
	44	Office Action mailed 08/13/2007 for U.S. Patent Application Serial No. 10/121,909.	
	45	Response to Non-Final Office Action sent to the USPTO on 05/15/2007 for U.S. Patent Application Serial No. 10/121,909.	
	46	Office Action mailed 11/16/2006 for U.S. Patent Application Serial No. 10/121,909.	
	47	Election and Response sent to the USPTO on 08/24/2006 for U.S. Patent Application Serial No. 10/121,909.	
	48	Office Action (Restriction) mailed 07/13/2006 for U.S. Patent Application Serial No. 10/121,909.	

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Sheet 5 of 6

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Art Unit	1647
Examiner Name	Regina M. DeBerry
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	49	Amendment and Response to Office Action Pursuant to 37 C.F.R. § 1.114 (with Request for Continued Examination) sent to the USPTO on 04/20/2006 for U.S. Patent Application Serial No. 10/121,909.	
	50	Advisory Action mailed 04/03/2006 for U.S. Patent Application Serial No. 10/121,909.	
	51	Amendment and Response to Office Action sent to the USPTO on 03/22/2006 U.S. Patent Application Serial No. 10/121,909	
	52	Office Action mailed 12/22/2005 for U.S. Patent Application Serial No. 10/121,909.	
	53	Amendment and Response to Office Action sent to the USPTO on 09/28/2006 for U.S. Patent Application Serial No. 10/121,909	
	54	Office Action mailed 06/28/2005 for U.S. Patent Application Serial No. 10/121,909.	
	55	Election and Response sent to the USPTO on 04/18/2005 for U.S. Patent Application Serial No. 10/121,909.	
	56	Office Action (Restriction) mailed 03/17/2005 for U.S. Patent Application Serial No. 10/121,909.	
	57	Preliminary Amendment sent to the USPTO on 04/12/2002 for U.S. Patent Application Serial No. 10/121,909.	
	58	Australia: First Statement of Proposed Amendments sent to the Australian Patent Office on 11/12/2004 for Australian Patent Application No. 2002307243.	
	59	Australia: Examiner's First Report mailed 07/04/2007 for Australian Patent Application No. 2002307243.	
	60	Australia: Response to Examiner's First Report sent to the Australian Patent Office on 09/14/2007 for Australian Patent Application No. 2002307243.	
	61	Canada: Office Action mailed 05/09/2007 for Canadian Patent Application No. 2,483,451.	
	62	Canada: Response to Office Action sent to the Canadian Patent Office on 10/17/2007 for Canadian Patent Application No. 2,483,451	

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